



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/662,006	09/12/2003	Hiroshi Shirai	21334-1255	8598

7590 04/27/2004
JoAnn Dilloway
Barley, Snyder
126 East King Street
Lancaster, PA 17602-2893

EXAMINER
ABRAMS, NEIL

ART UNIT	PAPER NUMBER
2839	

DATE MAILED: 04/27/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/662,006

Applicant(s)

SHIRAI ET AL.

Examiner

Neil Abrams

Art Unit

2839

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) ☐ Responsive to communication(s) filed on ____.

2a) ☐ This action is FINAL.

2b) ☒ This action is non-final.

3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) ☒ Claim(s) 1-30 is/are pending in the application.

4a) Of the above claim(s) ____ is/are withdrawn from consideration.

5) ☒ Claim(s) 1-21 is/are allowed.

6) ☒ Claim(s) 22-30 is/are rejected.

7) ☐ Claim(s) ____ is/are objected to.

8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

9) ☐ The specification is objected to by the Examiner.

10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) ☐ All b) ☐ Some * c) ☐ None of:

1. ☐ Certified copies of the priority documents have been received.

2. ☐ Certified copies of the priority documents have been received in Application No. ____.

3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)

2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date ____.

4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date ____.

5) ☐ Notice of Informal Patent Application (PTO-152)

6) ☐ Other: ____.

Art Unit: 2839

Abstract reference to fig. 3 species should be added.

Europe Search Report item AX is not in the file.

Spec. is objected to for fig. part 54 is referred to as an elastic plate and slit 55 is disclosed however there is no discussion of purpose of these parts or of how part 54, slit 55 improve or affect performance.

If spec amended, note prohibition on new matter.

Claims 22-30 are rejected under 35 U.S.C. 103(a) as being unpatentable over McHugh 140 in view of Nakano, Lynch, White and admitted prior art (APA).

McHugh contact includes a base 101, read as having a resilient contact", and a board terminal 103. McHugh does not include a slit however the recitation of a slit for which no purpose is set forth does not define over McHugh as shown. In addition, it would have been obvious to provide the base 102 with a slit for better securement in view of Lynch, fig. 5 at 74 or for capacitance control in view of White at 46.

For claims 25, 27, 28, McHugh discloses a second resilient contact at 104 with rolled end at 106. Should issues arise, also obvious to use a second contact part like that of APA fig. 9 at 207 or Nakano at 22 and also to use connecting portions like 213, 213 of Nakano. These enable more simple formation and handling of the contact. For the board terminal, while McHugh adequate, also obvious to use one like that of APA, fig. 9 at 209 which is more clearly depicted.


The following is an examiner's statement of reasons for allowance: For claims 1, 13, none of the prior art disclose a contact for a land grid array socket, the contact folded in the manner recited in these claims.

Art Unit: 2839

Claims 1-21 are allowed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication should be directed to Neil Abrams at telephone number (571)272-2089.


NEIL ABRAMS
EXAMINER
ART UNIT 322